

FILEID**HEADER

HH	HH	EEEEEEEEE	AAAAAA	DDDDDDDD	EEEEEEEEE	RRRRRRRR		
HH	HH	EEEEEEEEE	AAAAAA	DDDDDDDD	EEEEEEEEE	RRRRRRRR		
HH	HH	EE	AA	AA	DD	EE	RR	RR
HH	HH	EE	AA	AA	DD	EE	RR	RR
HH	HH	EE	AA	AA	DD	EE	RR	RR
HH	HH	EE	AA	AA	DD	EE	RR	RR
HHHHHHHHHHHH	EEEEEEE	AA	AA	DD	DD	EEEEEEE	RRRRRRRR	
HHHHHHHHHHHH	EEEEEEE	AA	AA	DD	DD	EEEEEEE	RRRRRRRR	
HH	HH	EE	AAAAAAA	DD	DD	EE	RR	RR
HH	HH	EE	AAAAAAA	DD	DD	EE	RR	RR
HH	HH	EE	AA	AA	DD	EE	RR	RR
HH	HH	EE	AA	AA	DD	EE	RR	RR
HH	HH	EEEEEEEEE	AA	AA	DDDDDDDD	EEEEEEEEE	RR	RR
HH	HH	EEEEEEEEE	AA	AA	DDDDDDDD	EEEEEEEEE	RR	RR

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

```
0001 0
0002 0 MODULE HEADER (LANGUAGE (BLISS32) .
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1 ****
0007 1 *
0008 1 *
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0026 1 *
0027 1 *
0028 1 ****
0029 1
0030 1 ++
0031 1
0032 1 FACILITY: MTAACP
0033 1
0034 1 ABSTRACT:
0035 1 This module contains routines which position to headers or trailers
0036 1 and read them.
0037 1
0038 1 ENVIRONMENT:
0039 1
0040 1 Starlet operating system, including privileged system services
0041 1 and internal exec routines.
0042 1
0043 1 --
0044 1
0045 1
0046 1
0047 1 AUTHOR: D. H. GILLESPIE, CREATION DATE: 25-MAY-77 15:00
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1 V03-006 MMD0323 Meg Dumont, 13-Aug-1984 15:17
0052 1 Fix to fix MMD0285, the way it was implemented the call
0053 1 wasn't getting made.
0054 1
0055 1 V03-005 MMD0300 Meg Dumont, 20-Jun-1984 11:23
0056 1 Fix to default Buffer offset length to zeros, when no HDR2
0057 1 is present for the file.
```

58 0058 1
59 0059 1
60 0060 1
61 0061 1
62 0062 1
63 0063 1
64 0064 1
65 0065 1
66 0066 1
67 0067 1
68 0068 1
69 0069 1
70 0070 1
71 0071 1
72 0072 1
73 0073 1
74 0074 1
75 0075 1
76 0076 1
77 0077 1
78 0078 1
79 0079 1
80 0080 1
81 0081 1
82 0082 1
83 0083 1
84 0084 1
85 0085 1
86 0086 1
87 0087 1
88 0088 1
89 0089 1
90 0090 1
91 0091 1
92 0092 1
93 0093 1
94 0094 1
95 0095 1
96 0096 1
97 0097 1
98 0098 1
99 0099 1
100 0100 1
101 0101 1
102 0102 1
103 0103 1
104 0104 1
105 0105 1
106 0106 1
107 0107 1
108 0108 1
109 0109 1
110 0493 1
111 0494 1
112 0495 1
113 0496 1
114 0497 1

V03-004 MMD0285 Meg Dumont, 6-Apr-1984 17:18
Fix to READ_HDR to include calling the clear
serious exception routine after the headers are
read. This is so that we do not leave the
TMSCP drives left in serious exception state
if we read into the TM while reading the headers.

V03-003 MMD0280 Meg Dumont, 23-Mar-1984 10:27
Fix long file name support such that for ANSI version
3 volumes it converts the extension length to
ASCII characters before writing it to the label.

V03-002 ROW0258 Ralph O. Weber 21-NOV-1983
The Paul Painter Memorial Enhancement
Named for one of the unfortunate customers who suffered much
to determine the great UCB\$L_MT_RECORD secret while trying to
create a user-written magtape driver, this change eliminates
use of the device dependent field, UCB\$L_MT_RECORD in favor of
the device independent field, UCB\$L_RECORD.

V03-001 MMD0162 Meg Dumont, 26-Apr-1983 9:36
Change reference to 80 to the symbol ANSI_LBLSZ. Change READ_HDR
to read in the HDR4 label or if not found to default the values.

V02-010 REFORMAT Maria del C. Nasr 30-Jun-1980

V02-009 MCN0016 Maria del C. Nasr, 18-Jun-1980 11:55
Initialize default HDR2 with blanks, instead of zeroes, to
avoid setting the old RMS attributes field.

A0008 MCN0013 Maria del C. Nasr 11-Mar-1980 11:25
Check for HDR3 instead of HDR2 to determine if current file
should be included in search or not.

A0007 MCN0011 Maria del C. Nasr 04-Feb-1980 9:05
Add input parameter to UPDVCB_LEOV routine to either clear
or set flag, and make routine global.

A0006 MCN0003 Maria del C. Nasr 28-Sep-79 10:39
Add HDR3 processing

A0005 SPR24948 Maria del C. Nasr 11-Sep-79 17:30
Forced spacing to eof when current position bit set to
fix bug.

**

LIBRARY 'SYSSLIBRARY:LIB.L32';

REQUIRE 'SRCS:MTADEF.B32';

FORWARD ROUTINE

READ_HDR : COMMON_CALL, ! read HDR1, HDR2, and HDR3 and HDR4 if exist
SPACE_EOF : COMMON_CALL NOVALUE, ! space to end of file
SET_NUMBER_OF_LABELS : COMMON_CALL NOVALUE, ! set the number of labels read

: 115 0498 1 UPDVCB LEOV : COMMON_CALL NOVALUE, ! update VCB logical end of file
: 116 0499 1 MAKE_CUR_FILE : COMMON_CALL NOVALUE, ! update VCB
: 117 0500 1 WRAP_AROOND : L\$WRAP_AROUND; ! continue search at beginning of volume set !
: 118 0501 1
: 119 0502 1 EXTERNAL
: 120 0503 1 CURRENT UCB : REF BBLOCK,
: 121 0504 1 IO PACKET : REF BBLOCK, ! address of IO request packet
: 122 0505 1 HDR1 : REF BBLOCK, ! address HDR1 label
: 123 0506 1 HDR2 : REF BBLOCK, ! address of HDR2 label
: 124 0507 1 HDR3 : REF BBLOCK, ! address of HDR3 label
: 125 0508 1 HDR4 : REF BBLOCK; ! address of HDR4 label
: 126 0509 1

```
128 0510 1 GLOBAL ROUTINE GET_START_HDR : L$GET_START_HDR =  
129 0511 1  
130 0512 1 ++  
131 0513 1  
132 0514 1 FUNCTIONAL DESCRIPTION:  
133 0515 1 This routine positions to the header label set of the start file  
134 0516 1 in current search and reads HDR1, HDR2, HDR3 and HDR4 labels unless  
135 0517 1 they have already been read.  
136 0518 1  
137 0519 1 CALLING SEQUENCE:  
138 0520 1 GET_START_HDR()  
139 0521 1  
140 0522 1 INPUT PARAMETERS:  
141 0523 1 none  
142 0524 1  
143 0525 1 IMPLICIT INPUTS:  
144 0526 1 CURRENT_VCB, CURRENT_UCB  
145 0527 1  
146 0528 1 OUTPUT PARAMETERS:  
147 0529 1 none  
148 0530 1  
149 0531 1 IMPLICIT OUTPUTS:  
150 0532 1 HDR1 read in, HDR2 read in or defaulted, HDR3 read in or defaulted  
151 0533 1 HDR4 read in or defaulted  
152 0534 1  
153 0535 1 ROUTINE VALUE:  
154 0536 1 0 unsuccessful, logical end of volume set  
155 0537 1 1 successful  
156 0538 1  
157 0539 1 SIDE EFFECTS:  
158 0540 1 none  
159 0541 1  
160 0542 1 --  
161 0543 1  
162 0544 2 BEGIN  
163 0545 2  
164 0546 2 EXTERNAL REGISTER  
165 0547 2 COMMON_REG;  
166 0548 2  
167 0549 2 EXTERNAL ROUTINE  
168 0550 2 MOUNT_VOL : COMMON_CALL; ! mount volume  
169 0551 2  
170 0552 2 EXTERNAL  
171 0553 2 CURRENT_UCB : REF BBLOCK, ! address of current ucb  
172 0554 2 LOCAL_FIB : BBLOCK; ! copy of user's fib  
173 0555 2  
174 0556 2 LOCAL  
175 0557 2 RELATIVE_BLOCK, ! relative block number to last tm  
176 0558 2 TM; ! number of tm's  
177 0559 2  
178 0560 2 ! mount volume if the current relative volume number is zero  
179 0561 2  
180 0562 2  
181 0563 2 IF .CURRENT_VCB[VCB$B_CUR_RVN] EQ 0  
182 0564 2 THEN  
183 0565 2 MOUNT_VOL(1, $FIELDMASK(MOU$V_REWIND) + $FIELDMASK(MOU$V_LBLCHECK));  
184 0566 2
```

```
185 0567 2 | if at logical end of volume set, return immediately
186 0568 2 |
187 0569 2 |
188 0570 2 IF .CURRENT_VCB[VCB$V_LOGICEOV]
189 0571 2 THEN RETURN 0;
190 0572 2 |
191 0573 2 |
192 0574 2 | If the number of tape marks into the file is not 0, then the previous file
193 0575 2 was closed prematurely and should not be included in search except in the
194 0576 2 case where there is no HDR3 and the tape is left positioned beyond the
195 0577 2 tm. If the section is not the first, then space to next file
196 0578 2 |
197 0579 2 |
198 0580 3 IF (.CURRENT_VCB[VCB$B_TM] NEQU 0
199 0581 3 AND
200 0582 4 NOT (.CURRENT_VCB[VCB$B_TM] EQLU 1 AND .HDR3[HD3$L_HD3LID] NEQU 'HDR3'
201 0583 4 AND
202 0584 3 (.CURRENT_UCB[UCB$L_RECORD] - .CURRENT_VCB[VCB$L_ST_RECORD]) EQLU 0))
203 0585 2 OR
204 0586 2 .CURRENT_VCB[VCB$W_CUR_SEQ] GTR 1
205 0587 2 |
206 0588 2 THEN SPACE_EOF() ! position to beginning of next file
207 0589 2 |
208 0590 2 ELSE
209 0591 2 |
210 0592 2 | If function is create, and current position bit is set, then force
211 0593 2 spacing to end of file, unless positioned in dummy file header set...
212 0594 2 |
213 0595 3 IF ((.IO_PACKET[IRPSV_FCODE] EQL IO$_CREATE) AND .LOCAL_FIB[FIB$V_CURPOS])
214 0596 2 AND
215 0597 3 (.CURRENT_VCB[VCB$B_TM] NEQU 0) AND (.CURRENT_VCB[VCB$W_CUR_NUM] NEQU 0)
216 0598 2 |
217 0599 2 THEN SPACE_EOF();
218 0600 2 |
219 0601 2 |
220 0602 2 | When new volume is mounted, VOL1 has been read but not the header labels.
221 0603 2 Therefore, the actual block count equals 1. If relative block count = 0,
222 0604 2 then the headers have not been read for this file.
223 0605 2 RELATIVE_BLOCK = .CURRENT_UCB[UCB$L_RECORD] - .CURRENT_VCB[VCB$L_ST_RECORD];
224 0606 2 |
225 0607 3 IF (.RELATIVE_BLOCK EQL 0 OR .CURRENT_UCB[UCB$L_RECORD] EQLU 1)
226 0608 2 AND
227 0609 2 .CURRENT_VCB[VCB$B_TM] EQLU 0
228 0610 2 |
229 0611 2 THEN RETURN READ_HDR();
230 0612 2 |
231 0613 2 |
232 0614 2 |
233 0615 1 END; ! end of routine
```

```
.TITLE HEADER
:IDENT \V04-000\

.EXTRN CURRENT_UCB, IO_PACKET
.EXTRN HDR1, HDR2, HDR3
.EXTRN HDR4, MOUNT_VOL
```

HE
VO

```

        .EXTRN LOCAL_FIB
        .PSECT $CODE$,NOWRT,2

        5A DD 00000 GET_START_HDR::          ; 0510
        2F AB 95 00002 POSHL R10           ; 0563
        09 12 00005 TSTB 47(CURRENT_VCB)
        03 DD 00007 BNEQ 1$                ; 0565
        01 DD 00009 PUSHL #3
        02 FB 0000B CALLS #2, MOUNT VOL
        01 E0 00010 1$: BBS #1, 11(CURRENT_VCB), 7$ ; 0570
        5A D4 00015 CLRL R10             ; 0580
        2E AB 95 00017 TSTB 46(CURRENT_VCB)
        20 13 0001A BEQL 2$                ; 0582
        5A D6 0001C INCL R10
        01 2E AB 91 0001E CMPB 46(CURRENT_VCB), #1
        39 12 00022 BNEQ 3$                ; 0584
        33524448 8F 0000G DF D1 00024 CMPL @HDR3, #861029448
        2E 13 0002D BEQL 3$                ; 0586
        30 50 0000G CF D0 0002F MOVL CURRENT_UCB, R0
        AB 0080 C0 D1 00034 CMPL 176(R0), 48(CURRENT_VCB)
        21 12 0003A BNEQ 3$                ; 0595
        01 26 AB B1 0003C 2$: CMPW 38(CURRENT_VCB), #1
        1B 1A 00040 BGTRU 3$                ; 0597
        50 0000G CF D0 00042 MOVL IO_PACKET, R0
        20 06 00047 CMPZV #0, #6, 32(R0), #51
        13 12 0004D BNEQ 4$                ; 0605
        0D 0000G CF 04 E1 0004F BBC #4, LOCAL_FIB, 4$
        OA 00055 5A E9 00055 BLBC R10, 4$ ; 0607
        24 AB B5 00058 TSTW 36(CURRENT_VCB)
        05 13 0005B BEQL 4$                ; 0609
        0000V CF 00 FB 0005D 3$: CALLS #0, SPACE_EOF
        50 0080 CO 00 CF D0 00062 4$: MOVL CURRENT_UCB, R0
        CO 0062 30 AB C3 00067 SUBL3 48(CURRENT_VCB), 176(R0), RELATIVE_BLOCK
        07 13 0006E BEQL 5$                ; 0611
        01 0080 CO D1 00070 CMPL 176(R0), #1
        0C 12 00075 BNEQ 6$                ; 0613
        2E AB 95 00077 5$: TSTB 46(CURRENT_VCB)
        07 12 0007A BNEQ 6$                ; 0615
        0000V CF 00 FB 0007C CALLS #0, READ_HDR
        07 11 00081 BRB 8$                ; 0616
        50 01 D0 00083 6$: MOVL #1, R0
        02 11 00086 BRB 8$                ; 1
        5A 8E D0 00088 7$: CLRL R0
        05 0008D 8$: MOVL (SP)+, R10
        RSB

```

: Routine Size: 142 bytes, Routine Base: \$CODE\$ + 0000

: 234 0616 1

```
236 0617 1 GLOBAL ROUTINE READ_HDR : COMMON_CALL =
237 0618 1
238 0619 1 ++
239 0620 1
240 0621 1 FUNCTIONAL DESCRIPTION:
241 0622 1 Read HDR1, and HDR2 if it exists - otherwise, it is defaulted.
242 0623 1 HDR3 is read only if HDR2 is found, and if starlet file. HDR4
243 0624 1 is read if the HDR3 is read.
244 0625 1
245 0626 1 CALLING SEQUENCE:
246 0627 1 READ_HDR()
247 0628 1
248 0629 1 INPUT PARAMETERS:
249 0630 1 none
250 0631 1
251 0632 1 IMPLICIT INPUTS:
252 0633 1 CURRENT_VCB - address of VCB
253 0634 1
254 0635 1 OUTPUT PARAMETERS:
255 0636 1 none
256 0637 1
257 0638 1 IMPLICIT OUTPUTS:
258 0639 1 HDR1, HDR2, HDR3, and HDR4 read in
259 0640 1 If starlet file, VCB notes this fact
260 0641 1 Also the number of labels that the mtaacp found is set in the VCB
261 0642 1 If logical end of tape (ie: tm encountered on read of HDR1) then this fact is noted in VCB
262 0643 1
263 0644 1 ROUTINE VALUE:
264 0645 1 0 - tm encountered when reading HDR1, logical end of volume set
265 0646 1 1 - successful
266 0647 1
267 0648 1 SIDE EFFECTS:
268 0649 1 First user label may be located in scratch label area
269 0650 1
270 0651 1 USER ERRORS:
271 0652 1 SSS_TAPEPOSLOST - HDR1 not encountered on read
272 0653 1
273 0654 1 --
274 0655 1
275 0656 2 BEGIN
276 0657 2
277 0658 2 LOCAL
278 0659 2     MVL : REF BBLOCK,
279 0660 2     NUMBER_OF_LABELS,
280 0661 2     SCRATCH : REF BBLOCK,
281 0662 2     DESCRIPTOR : VECTOR [2, LONG];
282 0663 2
283 0664 2 EXTERNAL REGISTER
284 0665 2     COMMON_REG;
285 0666 2
286 0667 2 EXTERNAL ROUTINE
287 0668 2     CHCK_IO CLR_EXCP : COMMON_CALL NOVALUE,
288 0669 2     ISSUE_IO : LSISUE_IO, ! Issue an IO to tape drive
289 0670 2     READ_BLOCK : COMMON_CALL; ! read one magtape block
290 0671 2
291 0672 2 BIND
292 0673 2     CVT5 = DESCRIPTOR('!5ZW').
```

293 0674 2 DEFAULT = UPLIT ('00512');
294 0675 2
295 0676 2 ! Initialize the number of labels read. This number will eventually
296 0677 2 be stored in the VCB and will be used on volume switch and file close
297 0678 2 to determine the number of labels to write to the tape
298 0679 2
299 0680 2 NUMBER_OF_LABELS = 0;
300 0681 2 IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
301 0682 2 THEN
302 0683 2 BEGIN
303 0684 2 KERNEL_CALL(UPDVCB_LEOV, 1);
304 0685 2 RETURN 0;
305 0686 2
306 0687 2 END;
307 0688 2
308 0689 2 WHILE 1
309 0690 2 DO BEGIN
310 0691 2
311 0692 2
312 0693 3 IF .HDR1[HD1\$L_HD1LID] EQLU 'HDR1'
313 0694 3 THEN
314 0695 3 EXITLOOP;
315 0696 3
316 0697 3
317 0698 3 IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
318 0699 3 THEN
319 0700 3 ERR_EXIT(SSS_TAPEPOSLOST);
320 0701 3
321 0702 2 END;
322 0703 2 NUMBER_OF_LABELS = 1;
323 0704 2 KERNEL_CALL(MAKE_CUR_FILE, .HDR1);
324 0705 2
325 0706 2 ! Default HDR2, HDR3, and HDR4 values
326 0707 2
327 0708 2 CHSFILL(' ', ANSI_LBLSZ, .HDR2);
328 0709 2 CHSFILL(0, ANSI_LBLSZ, .HDR3); ! clear HDR3 area
329 0710 2 CHSFILL(' ', ANSI_LBLSZ, .HDR4); ! clear HDR4 area
330 0711 2
331 0712 2 ! Default the HDR4 fields according to the version type.
332 0713 2
333 0714 2 MVL = .CURRENT_VCB[VCBSL_MVL];
334 0715 2 IF .MVL[MVL\$B_STDVER] GTR 3
335 0716 2 THEN
336 0717 2 HDR4[HD4\$B_FILEID_EXT_SIZE] = 0 ! Default size to 0
337 0718 2 ELSE
338 0719 2 CHSFILL('0', HD4\$S_FILEID_EXT_V3, HDR4[HD4\$T_FILEID_EXT_V3]);
339 0720 2
340 0721 2 HDR2[HD2\$B_RECORDFORMAT] = 'F';
341 0722 2 DESCRIPTOR[0] = HD2\$S_BLOCKLEN;
342 0723 2 DESCRIPTOR[1] = HDR2[HD2\$T_BLOCKLEN];
343 0724 2
344 0725 3 IF NOT SFAO(CVT5, 0, DESCRIPTOR, .CURRENT_UCB[UCBS\$W_DEVBUFSIZ])
345 0726 2 THEN
346 0727 2 CHSMOVE(HD2\$S_BLOCKLEN, DEFAULT, HDR2[HD2\$T_BLOCKLEN]);
347 0728 2
348 0729 2 CHSMOVE(HD2\$S_RECORDLEN, HDR2[HD2\$T_BLOCKLEN], HDR2[HD2\$T_RECORDLEN]);
349 0730 2

```
350 0731 2 IF .CURRENT_VCB[VCBSW_RECORDSZ] NEQ 0
351 0732 2 THEN
352 0733 2 BEGIN
353 0734 2 DESCRL[0] = HD2$S_RECLEN;
354 0735 3 DESCRL[1] = HDR2[HD2$T_RECLEN];
355 0736 3
356 0737 4 IF NOT $FAO(CVT5, 0, DESCRL, .CURRENT_VCB[VCBSW_RECORDSZ])
357 0738 3 THEN
358 0739 3 CH$MOVE(HD2$S_RECLEN, HDR2[HD2$T_BLOCKLEN], HDR2[HD2$T_RECLEN]);
359 0740 3
360 0741 2 END;
361 0742 2
362 0743 2 ! Set up the default buffer offset length field. In case there
363 0744 2 ! is no HDR2 label
364 0745 2
365 0746 2 HDR2[HD2$T_BUFOFF] = '00';
366 0747 2
367 0748 2 ! Set up the Scratch area to read the labels into to determine if
368 0749 2 ! this is a good label, before copying it into the real label field.
369 0750 2
370 0751 2 SCRATCH = .HDR1 + SCRATCH_OFFSET;
371 0752 2
372 0753 2 ! Now try to read HDR2
373 0754 2 !
374 0755 2
375 0756 2 IF READ_BLOCK(.SCRATCH, ANSI_LBLSZ) ! read into scratch area
376 0757 2 THEN
377 0758 2
378 0759 2 IF .(SCRATCH) EQLU 'HDR2'
379 0760 2 THEN
380 0761 3 BEGIN
381 0762 3 CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR2); ! HDR2 found
382 0763 3 NUMBER_OF_LABELS = 2;
383 0764 3
384 0765 3 IF .CURRENT_VCB[VCBSV_STARFILE] ! if starlet file
385 0766 3 THEN
386 0767 4 BEGIN
387 0768 4 IF READ_BLOCK(.SCRATCH, ANSI_LBLSZ) ! try to read HDR3
388 0769 4 THEN
389 0770 5 BEGIN
390 0771 5 IF .(SCRATCH) EQLU 'HDR3'
391 0772 5 THEN
392 0773 6 BEGIN
393 0774 6 CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR3); ! HDR3 found
394 0775 6 NUMBER_OF_LABELS = 3;
395 0776 5 END;
396 0777 5 IF READ_BLOCK(.SCRATCH, ANSI_LBLSZ) ! try to read HDR4
397 0778 5 THEN
398 0779 5 IF .(SCRATCH) EQLU 'HDR4'
399 0780 5 THEN
400 0781 6 BEGIN
401 0782 6 CH$MOVE(ANSI_LBLSZ, .SCRATCH, .HDR4); ! HDR4 found
402 0783 6 NUMBER_OF_LABELS = 4;
403 0784 5 END;
404 0785 4 END;
405 0786 3 END;
406 0787 2 END;
```

```

407 0788 2
408 0789 2
409 0790 2 ! Call to clear TMSCP drives of the serious exception (reading the tape
410 0791 2 ! mark) before returning to the user
411 0792 2
412 0793 2
413 0794 2
414 0795 2
415 0796 1
      END: ! end of routine

```

```

57 5A 35 21 0008E P.AAB: .ASCII \!5ZW\
00000004 00092 .BLKB 2
00000000 00094 P.AAA: .LONG 4
00000000 00098 .ADDRESS P.AAB
00 00 00 32 31 35 30 30 0009C P.AAC: .ASCII \00512\<0><0><0>

```

```

CVT5= P.AAA
DEFAULT= P.AAC
      .EXTRN CHCK IO CLR EXCP
      .EXTRN ISSUE IO, READ_BLOCK
      .EXTRN SYSSCMKRNL, SYSSFAO

```

5A	0000G	07FC 00000	.ENTRY READ_HDR Save R2,R3,R4,R5,R6,R7,R8,R9,R10	: 0617
59	00000000G	CF 9E 00002	MOVAB HDR2, R16	
5E		9F 9E 00007	MOVAB @#SYSSCMKRNL, R9	
7E	50	08 C2 0000E	SUBL2 #8, SP	
	0000G	58 D4 00011	CLRL NUMBER_OF_LABELS	0680
0000G	CF	8F 9A 00013	MOVZBL #80, -(SP)	0681
	10	02 FB 0001B	PUSHL HDR1	
		50 E8 00020	CALLS #2, READ_BLOCK	
		01 DD 00023	BLBS R0, 1\$	
		01 DD 00025	PUSHL #1	0684
		5E DD 00027	PUSHL SP	
		0000V CF 9F 00029	PUSHAB UPDVCB LEOV	
31524448	69 8F	04 FB 0002D	CALLS #4, SYSSCMKRNL	
		0165 31 00030	BRW 9\$	0685
		16 13 0003C	CMPL @HDR1, #827475016	0693
	7E	0000G CF D1 00033	BEQL 2\$	
		13 0003C	MOVZBL #80, -(SP)	0697
	0000G CF	8F 9A 0003E	PUSHL HDR1	
	E5	02 DD 00042	CALLS #2, READ_BLOCK	
		50 E8 00046	BLBS R0, 1\$	
		0224 8F BF 0004E	CHMU #548	0699
		DF 11 00052	BRB 1\$	0689
	58	0000G CF DD 00054	MOVL #1, NUMBER_OF_LABELS	0703
		2\$: 01 DD 00057	PUSHL HDR1	0704
		01 DD 0005B	PUSHL #1	
		5E DD 0005D	PUSHL SP	
		0000V CF 9F 0005F	PUSHAB MAKE_CUR_FILE	
0050	8F 20	04 FB 00063	CALLS #4, SYSSCMKRNL	
	6E	6A DO 00066	MOVL HDR2, R7	0708
		67 00 2C 00069	MOVC5 #0, (SP), #32, #80, (R7)	
	00	6E 00 2C 00070	MOVC5 #0, (SP), #0, #80, @HDR3	0709

0050	8F	20	56	0000G	DF	00078				0710		
			6E	0000G	CF	D0	0007B	MOVL	HDR4, R6			
					00	2C	00080	MOVCS	#0, (SP), #32, #80, (R6)			
					66		00087					
			50	34	AB	D0	00088	MOVL	52(CURRENT_VCB), MVL	0714		
			03	22	A0	91	0008C	CMPB	34(MVL), #3	0715		
					05	1B	00090	BLEQU	3\$			
				04	A6	94	00092	CLR8	4(R6)	0717		
					06	11	00095	BRB	4\$			
			43	A6	3030	8F	B0	00097	MOVW	#12336, 67(R6)	0719	
			04	A7	46	8F	90	0009D	MOVBS	#70, 4(R7)	0721	
			6E		05	D0	000A2	MOVL	#5, DESCR	0722		
			04	AE	05	A7	9E	000A5	MOVAB	5(R7), DESCR+4	0723	
			50		0000G	CF	D0	000AA	MOVBL	CURRENT_UCB, R0	0725	
			7E		42	A0	3C	000AF	MOVZWL	66(R0), -(SP)		
					04	AE	9F	000B3	PUSHAB	DESCR		
						7E	D4	000B6	CLRL	-(SP)		
					FF34	CF	9F	000B8	PUSHAB	CVT5		
			00000000G	00		04	FB	000BC	CALLS	#4, SYSSFAO		
				0A		50	E8	000C3	BLBS	R0, 5\$		
			50			6A	D0	000C6	MOVL	HDR2, R0	0727	
05	A0	FF2A	CF			05	28	000C9	MOVCS	#5, DEFAULT, 5(R0)		
			57			6A	D0	000D0	MOVL	HDR2, R7	0729	
0A	A7	05	A7			05	28	000D3	MOVCS	#5, 5(R7), 10(R7)		
				50		AB	B5	000D9	TSTW	80(CURRENT_VCB)	0731	
						28	13	000DC	BEQL	6\$		
			04	6E		05	D0	000DE	MOVL	#5, DESCR	0734	
			04	AE		0A	A7	9E	000E1	MOVAB	10(R7), DESCR+4	0735
				7E		50	AB	3C	000E6	MOVZWL	80(CURRENT_VCB), -(SP)	0737
					04	AE	9F	000EA	PUSHAB	DESCR		
						7E	D4	000ED	CLRL	-(SP)		
			00000000G	00	FEFD	CF	9F	000EF	PUSHAB	CVT5		
				09		04	FB	000F3	CALLS	#4, SYSSFAO		
			50			50	E8	000FA	BLBS	R0, 6\$		
0A	A0	05	A0			6A	D0	000FD	MOVL	HDR2, R0	0739	
			50			05	28	00100	MOVCS	#5, 5(R0), 10(R0)		
			32	A0	3030	6A	D0	00106	MOVL	HDR2, R0	0746	
57		0000G	CF	00000140		8F	B0	00109	MOVW	#12336, 50(R0)		
			7E		50	8F	C1	0010F	ADDL3	#320, HDR1, SCRATCH	0751	
						8F	9A	00119	MOVZBL	#80, -(SP)	0756	
			0000G	CF		57	DD	0011D	PUSHL	SCRATCH		
				5B		02	FB	0011F	CALLS	#2, READ_BLOCK		
			32524448	8F		50	E9	00124	BLBC	R0, 8\$		
00	BA				67	D1	00127	CMPL	(SCRATCH), #844252232	0759		
			67	0050		52	12	0012E	BNEQ	8\$		
			58			8F	28	00130	MOVCS	#80, (SCRATCH), @HDR2	0762	
			44	2D		02	D0	00137	MOVL	#2, NUMBER_OF_LABELS	0763	
			7E	50		AB	E9	0013A	BLBC	45(CURRENT_VCB), 8\$	0765	
						8F	9A	0013E	MOVZBL	#80, -(SP)	0768	
			0000G	CF		57	DD	00142	PUSHL	SCRATCH		
				36		02	FB	00144	CALLS	#2, READ_BLOCK		
			33524448	8F		50	E9	00149	BLBC	R0, 8\$		
					67	D1	0014C	CMPL	(SCRATCH), #861029448	0771		
0000G	DF		67	0050		0B	12	00153	BNEQ	7\$		
			58			8F	28	00155	MOVCS	#80, (SCRATCH), @HDR3	0774	
			7E	50		03	D0	0015D	MOVL	#3, NUMBER_OF_LABELS	0775	
						8F	9A	00160	MOVZBL	#80, -(SP)	0777	
								7\$:				

0000G	CF	57	DD 00164	PUSHL	SCRATCH
14		02	FB 00166	CALLS	#2, READ_BLOCK
34524448	8F	50	E9 0016B	BLBC	R0, 8\$
		67	D1 0016E	CMPL	(SCRATCH), #877806664
0000G	DF	0B	12 00175	BNEQ	8\$
67		8F	28 00177	MOVC3	#80, (SCRATCH), @HDR4
0000G	CF	04	D0 0017F	MOVL	#4, NUMBER_OF_LABELS
58		00	FB 00182	8\$:	CALLS
		58	DD 00187	PUSHL	#0, CHCK 10 CLR_EXCP
		01	DD 00189	PUSHL	NUMBER_OF_LABELS
		5E	DD 0018B	PUSHL	#1
69		CF	9F 0018D	PUSHAB	SP
50		04	FB 00191	CALLS	SET_NUMBER_OF_LABELS
		01	D0 00194	MOVL	#4, SYSSCMRRNC
		04	00197	RET	
		50	D4 00198	9\$:	CLRL
		04	0019A	RET	R0

: Routine Size: 411 bytes. Routine Base: \$CODE\$ + 00A4

: 416 0797 1

```
418 0798 1 GLOBAL ROUTINE WRAP_AROUND : L$WRAP_AROUND =
419 0799 1
420 0800 1 !++
421 0801 1
422 0802 1 FUNCTIONAL DESCRIPTION:
423 0803 1 If this is not the first time through and the search started
424 0804 1 at the beginning of the volume set then return error else rewind volume set
425 0805 1
426 0806 1 CALLING SEQUENCE:
427 0807 1 WRAP_AROUND()
428 0808 1
429 0809 1 INPUT PARAMETERS:
430 0810 1 none
431 0811 1
432 0812 1 IMPLICIT INPUTS:
433 0813 1 LOCAL_FIB - copy of user's fib
434 0814 1 CURRENT_VCB - address of current volume VCB
435 0815 1
436 0816 1 OUTPUT PARAMETERS:
437 0817 1 none
438 0818 1
439 0819 1 IMPLICIT OUTPUTS:
440 0820 1 none
441 0821 1
442 0822 1 ROUTINE VALUE:
443 0823 1 0 back to beginning of search
444 0824 1 1 at beginning of volume set
445 0825 1
446 0826 1 SIDE EFFECTS:
447 0827 1 none
448 0828 1
449 0829 1 --+
450 0830 1
451 0831 2 BEGIN
452 0832 2
453 0833 2 EXTERNAL REGISTER
454 0834 2 COMMON_REG;
455 0835 2
456 0836 2 EXTERNAL ROUTINE
457 0837 2 MOUNT_VOL : COMMON_CALL;           ! mount volume
458 0838 2 REWIND_VOL_SET : COMMON_CALL;      ! rewind volume set
459 0839 2
460 0840 2 EXTERNAL
461 0841 2 LOCAL_FIB : BBLOCK;               ! copy of user's fib
462 0842 2
463 0843 2 IF CURRENT_VCB[VCB$L_START_FID] EQL XX'00010001'
464 0844 2 THEN
465 0845 2 RETURN 0
466 0846 2 ELSE
467 0847 2 BEGIN
468 0848 2 REWIND_VOL_SET();
469 0849 2
470 0850 2 ! get first volume mounted
471 0851 2
472 0852 2 MOUNT_VOL(1, $FIELDMASK(MOU$V_REWIND) + $FIELDMASK(MOU$V_LBLCHECK));
473 0853 2
474 0854 3 IF NOT READ_HDR()
```

: 475 0855 3 THEN
: 476 0856 3 ERR_EXIT(SSS_TAPEPOSLOST);
: 477 0857 3
: 478 0858 2 END;
: 479 0859 2
: 480 0860 2 RETURN 1;
: 481 0861 2
: 482 0862 1 END;
: 483 0863 1 ! end of routine

.EXTRN REWIND_VOL_SET

00010001	8F	28	AB	D1 00000 WRAP_AROUND::	CMPL 40(CURRENT_VCB), #65537	: 0843
0000G	CF		1E	13 00008	BEQL 2\$	
			00	FB 0000A	CALLS #0, REWIND_VOL_SET	: 0848
			03	DD 0000F	PUSHL #3	: 0852
			01	DD 00011	PUSHL #1	
0000G	CF		02	FB 00013	CALLS #2, MOUNT_VOL	
FE48	CF		00	FB 00018	CALLS #0, READ_RDR	: 0854
04		0224	50	E8 0001D	BLBS R0, 1\$	
50			8F	BF 00020	CHMU #548	: 0856
			01	D0 00024 1\$:	MOVL #1, R0	: 0860
			05	00027	RSB	
			50	D4 00028 2\$:	CLRL R0	
			05	0002A	RSB	: 0862

; Routine Size: 43 bytes, Routine Base: \$CODE\$ + 023F

; 483 0863 1

```
485 0864 1 GLOBAL ROUTINE SPACE_EOF : COMMON_CALL NOVALUE =
486 0865 1
487 0866 1 ++
488 0867 1
489 0868 1 FUNCTIONAL DESCRIPTION:
490 0869 1 This routine spaces to the end of the current file, right
491 0870 1 before the next file.
492 0871 1
493 0872 1 CALLING SEQUENCE:
494 0873 1 SPACE_EOF()
495 0874 1
496 0875 1 INPUT PARAMETERS:
497 0876 1 none
498 0877 1
499 0878 1 IMPLICIT INPUTS:
500 0879 1 CURRENT_VCB _ address of current VCB
501 0880 1
502 0881 1 OUTPUT PARAMETERS:
503 0882 1 none
504 0883 1
505 0884 1 IMPLICIT OUTPUTS:
506 0885 1 none
507 0886 1
508 0887 1 ROUTINE VALUE:
509 0888 1 none
510 0889 1
511 0890 1 SIDE EFFECTS:
512 0891 1 The tape is left positioned in front of HDR1 of the next file
513 0892 1
514 0893 1 --
515 0894 1
516 0895 2 BEGIN
517 0896 2
518 0897 2 SWITCHES NOOPTIMIZE;
519 0898 2
520 0899 2 EXTERNAL REGISTER
521 0900 2 COMMON_REG;
522 0901 2
523 0902 2 EXTERNAL ROUTINE
524 0903 2 GTNEXT VOL_READ : JSB,           ! get next volume on read
525 0904 2 READ_BLOCK : COMMON_CALL,      ! read mag tape block
526 0905 2 SPACE_TM : COMMON_CALL;       ! space tm's
527 0906 2
528 0907 2 EXTERNAL
529 0908 2 CURRENT_UCB : REF BBLOCK;      ! address of current ucb
530 0909 2
531 0910 2 LOCAL
532 0911 2 TM;
533 0912 2
534 0913 2 ! If tape is positioned in header set, space 2 tape marks
535 0914 2 !
536 0915 2
537 0916 2 IF .CURRENT_VCB[VCB$B_TM] EQL 0 AND .HDR1[HD1$L_HD1$LID] EQL 'HDR1'
538 0917 2 THEN
539 0918 2     SPACE_TM(2);
540 0919 2
541 0920 2 ! if in data area, space 1 tape mark
```

```
542      0921 2      !
543      0922 2
544      0923 2      IF .CURRENT_VCB[VCB$B_TM] EQLU 1
545      0924 2      THEN
546      0925 2          SPACE_TM(1);
547      0926 2
548      0927 2      ! Now if trailer label has not been read, read it
549      0928 2
550      0929 2
551      0930 2      IF .CURRENT_VCB[VCB$B_TM] EQLU 2
552      0931 2          AND
553      0932 2          (.CURRENT_VCB[UCB$L_RECORD] - .CURRENT_VCB[VCB$L_ST_RECORD]) EQL 0
554      0933 2      THEN
555      0934 2
556      0935 2      IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
557      0936 2      THEN
558      0937 2          ERR_EXIT(SSS_TAPEPOSLOST);
559      0938 2
560      0939 2      WHILE 1
561      0940 2      DO
562      0941 3          BEGIN
563      0942 3
564      0943 3          IF .HDR1[HD1$L_HD1LID] EQL 'EOF1'
565      0944 3          THEN
566      0945 3              EXITLOOP;
567      0946 3
568      0947 3          IF .HDR1[HD1$L_HD1LID] NEQ 'EOF1'
569      0948 3          THEN
570      0949 3              ERR_EXIT(SSS_TAPEPOSLOST);
571      0950 3
572      0951 3          GTNEXT_VOL_READ();
573      0952 3
574      0953 3          IF .CURRENT_VCB[VCB$B_TM] EQLU 0
575      0954 3          THEN
576      0955 3              SPACE_TM(2)
577      0956 3          ELSE
578      0957 3              SPACE_TM(1);
579      0958 3
580      0959 3          IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
581      0960 3          THEN
582      0961 3              ERR_EXIT(SSS_TAPEPOSLOST);
583      0962 3
584      0963 2
585      0964 2
586      0965 2      IF .CURRENT_VCB[VCB$B_TM] EQLU 2
587      0966 2      THEN
588      0967 2          SPACE_TM(1);
589      0968 2
590      0969 1      END;
                                         ! end of routine
```

```
.EXTRN GTNEXT_VOL_READ
.EXTRN SPACE_TM
.ENTRY SPACE_EOF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10 : 0864
        MOVAB SPACE_TM, R2
```

			2E	AB	95	00007	TSTB	46(CURRENT_VCB)	0916
			10	12	0000A		BNEQ	1\$	
			DF	D1	0000C		CMPL	@HDR1, #827475016	
			05	12	00015		BNEQ	1\$	
			02	DD	00017		PUSHL	#2	
			62	01	FB	00019	CALLS	#1, SPACE_TM	0918
			01	2E	AB	91	CMPB	46(CURRENT_VCB), #1	0923
					05	12	BNEQ	2\$	
					01	DD	PUSHL	#1	
			62	01	FB	00024	CALLS	#1, SPACE_TM	0925
			02	2E	AB	91	CMPB	46(CURRENT_VCB), #2	0930
					21	12	BNEQ	4\$	
			30	50	0000G	CF	DO	0002D	0932
			AB	00B0		CO	D1	00032	
					14	12	MOVBL	CURRENT_UCB, R0	
					8F	9A	CMPL	176(R0), 48(CURRENT_VCB)	
			7E	50	0000G	CF	DD	0003E	0935
				04		02	FB	00042	
					50	E8	CALLS	#2, READ_BLOCK	
			31464F45	8F	0000G	0224	BF	00047	0937
					DF	D1	BLBS	R0, 4\$	0943
			31564F45	8F	0000G	0224	BF	0004A	0947
					22	13	CHMU	#548	
					04	13	CMPL	@HDR1, #826691397	
					04	13	BEQL	8\$	
					0224	8F	CMPL	@HDR1, #827739973	
					04	BF	CHMU	5\$	
					0224	0000G	#548		0949
					30	00068	BSBW	GTNEXT_VOL_READ	0951
					2E	AB	TSTB	46(CURRENT_VCB)	0953
					04	12	BNEQ	6\$	
					02	DD	PUSHL	#2	
					02	11	BRB	7\$	
					01	DD	PUSHL	#1	
			62	01	00074	6\$:	CALLS	#1, SPACE_TM	0957
				01	FB	00076	7\$:	BRB	3\$
					BF	11	CMPB	46(CURRENT_VCB), #2	0959
			02	2E	AB	91	BNEQ	9\$	0965
					05	12	PUSHL	#1	
					01	DD	CALLS	#1, SPACE_TM	0967
			62	01	FB	00081	RET		
				04	00083				0969
				04	00086	9\$:			

; Routine Size: 135 bytes, Routine Base: \$CODE\$ + 026A

; 591 0970 1

593 0971 1 ROUTINE MAKE_CUR_FILE (LABELS) : COMMON_CALL NOVALUE =
594 0972 1
595 0973 1 ++
596 0974 1
597 0975 1 FUNCTIONAL DESCRIPTION:
598 0976 1 This routine updates the current file number and the Starlet
599 0977 1 file indicator.
600 0978 1
601 0979 1 CALLING SEQUENCE:
602 0980 1 MAKE_CUR_FILE(ARG1), call in kernel mode
603 0981 1
604 0982 1 INPUT PARAMETERS:
605 0983 1 ARG1 - address of labels
606 0984 1
607 0985 1 IMPLICIT INPUTS:
608 0986 1 none
609 0987 1
610 0988 1 OUTPUT PARAMETERS:
611 0989 1 none
612 0990 1
613 0991 1 IMPLICIT OUTPUTS:
614 0992 1 If file is Starlet file, then VCB\$V_STARFILE = 1
615 0993 1 CUR_NUM is updated
616 0994 1
617 0995 1 ROUTINE VALUE:
618 0996 1 none
619 0997 1
620 0998 1 SIDE EFFECTS:
621 0999 1 none
622 1000 1
623 1001 1 --
624 1002 1
625 1003 2 BEGIN
626 1004 2
627 1005 2 EXTERNAL REGISTER
628 1006 2 COMMON_REG;
629 1007 2
630 1008 2 MAP
631 1009 2 LABELS : REF BBLOCK; ! HDR1, HDR2, and HDR3 address
632 1010 2
633 1011 2 BIND
634 1012 2
635 1013 2 ! Any file with 11 code will be supported, instead of only 11A
636 1014 2
637 1015 2 STARID = UPLIT ('DECFILE11');
638 1016 2
639 1017 2 EXTERNAL ROUTINE
640 1018 2 FORMAT_FID : COMMON_CALL; ! format file id
641 1019 2
642 1020 2 CURRENT VCB[VCB\$V_STARFILE] = CHSEQL(9, STARID, 9, LABELS[HD1\$T_SYSCODE],0);
643 1021 2 FORMAT_FID(CURRENT_VCB[VCB\$W_CUR_NUM]); ! end of routine
644 1022 1
END;

00 00 00 31 31 45 4C 49 46 43 45 44 002F1 002F4 P.AAD: :BLKB 3
:ASCII \DECFILE11\<0>\<0>\<0> :

STARID= P.AAD
.EXTRN FORMAT_FID

001C 00000 MAKE_CUR_FILE:
50 04 AC D0 00002 WORD Save R2,R3,R4 : 0971
3C A0 E8 AF 54 D4 00006 MOVL LABELS, R0 : 1020
2D AB 01 00 00 02 12 0000E CLRL R4 :
0000G CF 24 54 D6 00010 CMPC3 #9, STARID, 60(R0)
00006 CF 01 F0 00012 1\$: BNEQ 1\$:
00006 CF 01 9F 00018 INCL R4 : 1021
00006 CF 04 00020 PUSHAB 36(CURRENT_VCB)
CALLS #1, FORMAT_FID : 1022
RET

: Routine Size: 33 bytes, Routine Base: \$CODE\$ + 0300

: 645 1023 1

```

: 647 1024 1 GLOBAL ROUTINE UPDVCB_LEOV (BIT_VALUE) : COMMON_CALL NOVALUE =
: 648 1025 1
: 649 1026 1 ++
: 650 1027 1
: 651 1028 1 FUNCTIONAL DESCRIPTION:
: 652 1029 1 This routine sets or clears the logical end of file bit in the VCB
: 653 1030 1
: 654 1031 1 CALLING SEQUENCE:
: 655 1032 1 UPDVCB_LEOV(ARG1), called in kernel mode
: 656 1033 1
: 657 1034 1 INPUT PARAMETERS:
: 658 1035 1 value to set logical end of volume to:
: 659 1036 1 0 - clear bit
: 660 1037 1 1 - set bit
: 661 1038 1
: 662 1039 1 IMPLICIT INPUTS:
: 663 1040 1 CURRENT_VCB - address of volume control block
: 664 1041 1
: 665 1042 1 OUTPUT PARAMETERS:
: 666 1043 1 none
: 667 1044 1
: 668 1045 1 IMPLICIT OUTPUTS:
: 669 1046 1 CURRENT_VCB[VCB$V_LOGICEOVS] is set or cleared
: 670 1047 1
: 671 1048 1 ROUTINE VALUE:
: 672 1049 1 none
: 673 1050 1
: 674 1051 1 SIDE EFFECTS:
: 675 1052 1 none
: 676 1053 1
: 677 1054 1 --
: 678 1055 1
: 679 1056 2 BEGIN
: 680 1057 2
: 681 1058 2 EXTERNAL REGISTER
: 682 1059 2 COMMON_REG;
: 683 1060 2
: 684 1061 2 CURRENT_VCB[VCB$V_LOGICEOVS] = .BIT_VALUE;
: 685 1062 1 END; ! end of routine

```

OB	AB	01	01	04	AC	0000 00000
					FO	00002
					04	00009

.ENTRY	UPDVCB LE OV, Save nothing
INSV	BIT_VALUE, #1, #1, 11(CURRENT_VCB)
RET	

: 1024
: 1061
: 1062

: Routine Size: 10 bytes, Routine Base: \$CODE\$ + 0321

: 686 1063 1

```

688 1064 1 ROUTINE SET_NUMBER_OF_LABELS (NUMBER_OF_LABELS) : COMMON_CALL NOVALUE =
689 1065 1
690 1066 1 ++
691 1067 1
692 1068 1 FUNCTIONAL DESCRIPTION:
693 1069 1 This routine sets then number of labels read by the MTAACP in the VCB.
694 1070 1 This value will be used to determine how many labels are written out
695 1071 1 when volume switch or at end of file processing. The reason this is
696 1072 1 necessary is so that if a file is open with fewer labels then we support
697 1073 1 we do not write the greater number of MDR labels out to the tape. This
698 1074 1 would be a noncompliance with the ANSI standard for tape label
699 1075 1 processing.
700 1076 1
701 1077 1 CALLING SEQUENCE:
702 1078 1 SET_NUMBER_OF_LABELS(ARG1), called in kernel mode
703 1079 1
704 1080 1 INPUT PARAMETERS:
705 1081 1 Number of labels read.
706 1082 1
707 1083 1 IMPLICIT INPUTS:
708 1084 1 CURRENT_VCB - address of volume control block
709 1085 1
710 1086 1 OUTPUT PARAMETERS:
711 1087 1 none
712 1088 1
713 1089 1 IMPLICIT OUTPUTS:
714 1090 1 CURRENT_VCB[VCBSB_LBLCNT] is set
715 1091 1
716 1092 1 ROUTINE VALUE:
717 1093 1 none
718 1094 1
719 1095 1 SIDE EFFECTS:
720 1096 1 none
721 1097 1
722 1098 1 --
723 1099 1
724 1100 2 BEGIN
725 1101 2
726 1102 2 EXTERNAL REGISTER
727 1103 2 COMMON_REG;
728 1104 2
729 1105 2 CURRENT_VCB[VCBSB_LBLCNT] = .NUMBER_OF_LABELS;
730 1106 2 END;                                ! end of routine

```

0000 00000 SET_NUMBER_OF_LABELS:

48 AB 04 AC 90 00002 .WORD Save nothing
04 00007 MOVB NUMBER_OF_LABELS, 72(CURRENT_VCB)
RET

1064
1105
1106

; Routine Size: 8 bytes, Routine Base: \$CODE\$ + 032B

; 731 1107 1

732 1108 1 END
733 1109 1
734 1110 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	819	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
\$_255\$DUA28:[SYSLIB]LIB.L32;1	18619	36	0	1000	00:01.8

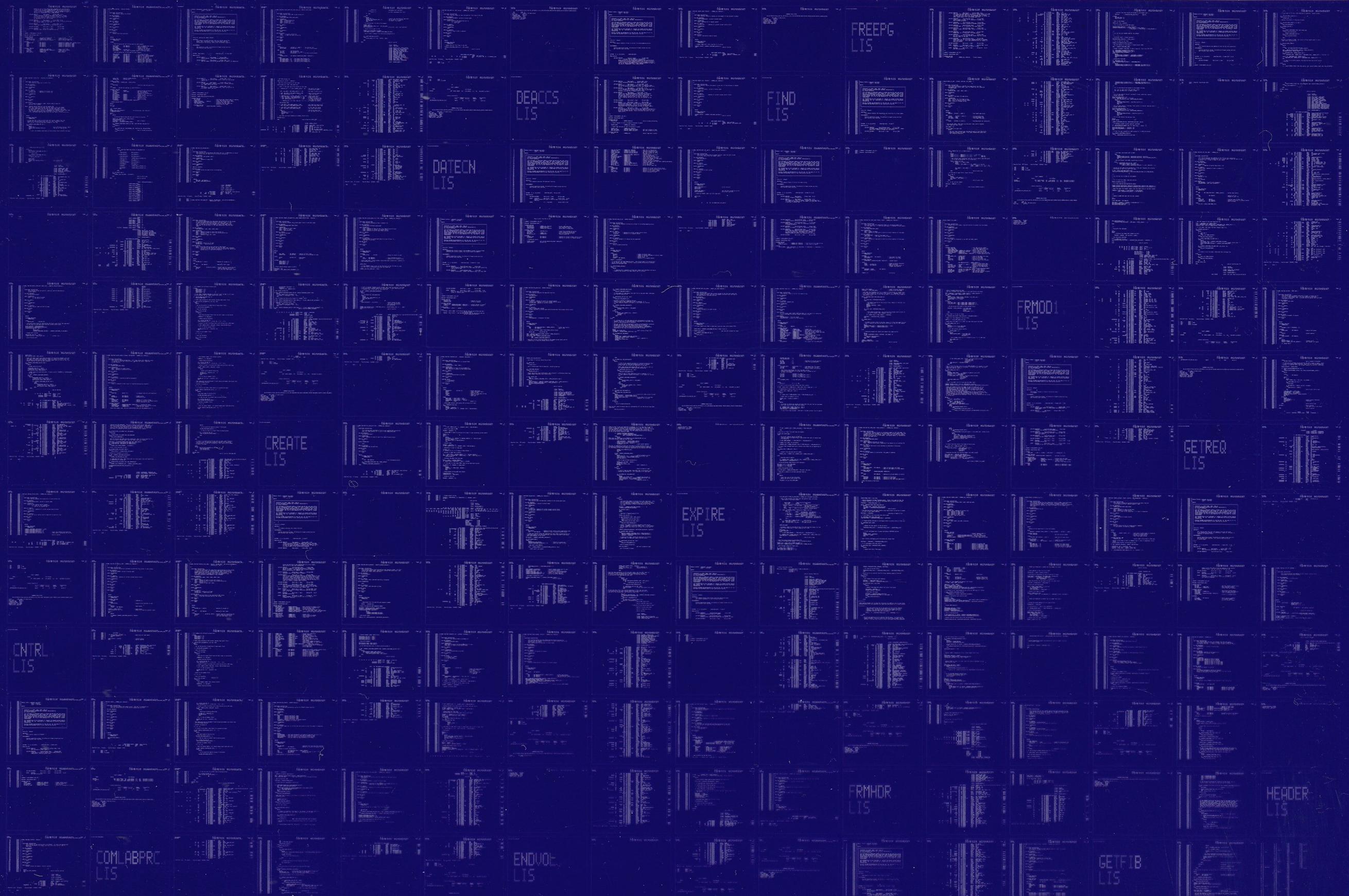
COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS\$:HEADER/OBJ=OBJ\$:HEADER MSRC\$:HEADER/UPDATE=(ENH\$:HEADER)

Size: 782 code + 37 data bytes
Run Time: 00:17.7
Elapsed Time: 00:40.6
Lines/CPU Min: 3771
Lexemes/CPU-Min: 18091
Memory Used: 163 pages
Compilation Complete

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